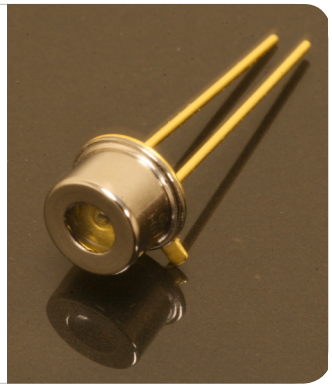
Marktech Optoelectronics

Parallel Beam Point Source Emitter

Product No: **MTPS2085BWS**

Peak Emission Wavelength: 855nm

The 855nm Point Source Series is designed for applications requiring high accuracy and precision as well as parallel beam spectral emission. Custom package solutions and sorting are available.



FEATURES

> Hermetically Sealed TO-18 Package
> Emitting Window Diameter Φ 50µm
> Gold Plated Flat Top Can
> High Reliability / High Output Power

APPLICATIONS

> Optical Scanning
> Linear & Rotary Encoder
> Edge Sensing / Optical Sensors
> Fiber Optics / Optical Communications

Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	80	mA
Forward Current (Pulse)*1	IFP	0.4	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	160	mW
Operating Temperature Range	Topr	-30 ~ +100	°C
Storage Temperature Range	Tstg	-40 ~ +125	°C
Junction Temperature	Tj	125	°C
Lead Soldering Temperature*2	Tls	260	°C

*1: Tw=10µsec, T=10msec. *2. Time 5sec Max, Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	Po	IF=50mA	--	1.7	--	mW
Forward Voltage	VF	IF=50mA	--	1.9	2.3	V
Reverse Current	IR	VR=5V	--	--	10	µA
Peak Wavelength	λp	IF=50mA	--	855	--	nm
Spectral Line Half Width	Δλ	IF=50mA	--	30	--	nm
Half Intensity Beam Angle	Θ	IF=50mA	--	±5	--	deg

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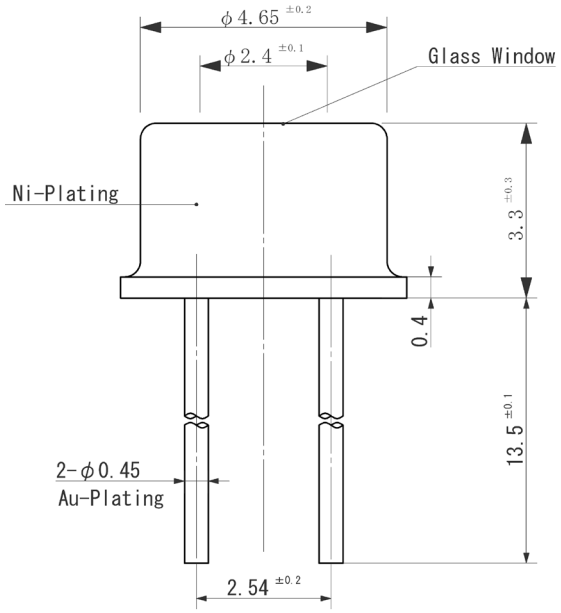
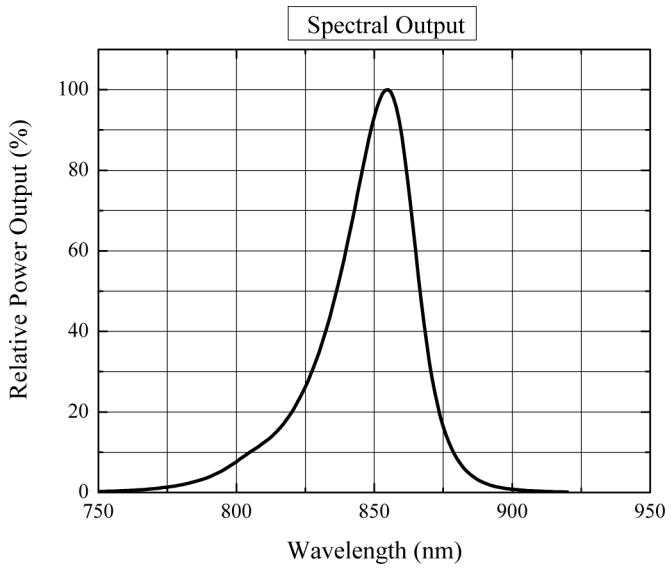
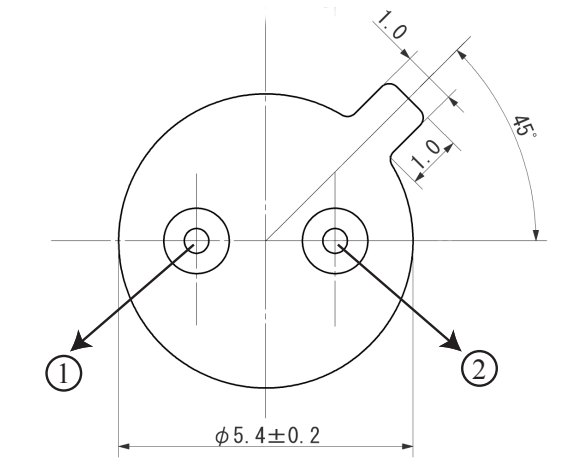
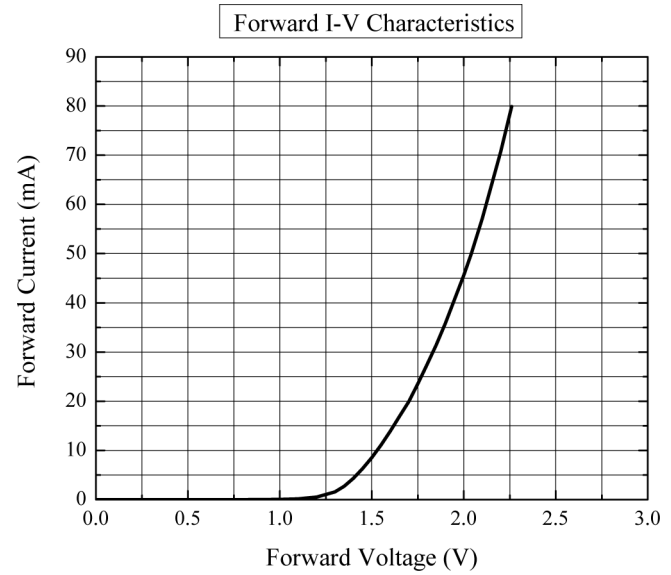






①Cathode

②Anode



Unit: mm, Tolerance: ±0.2

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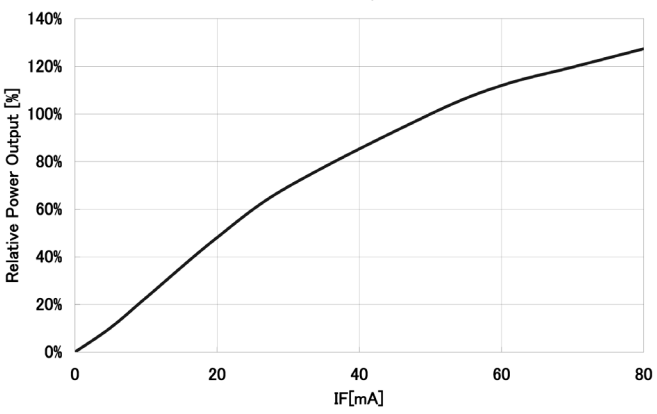

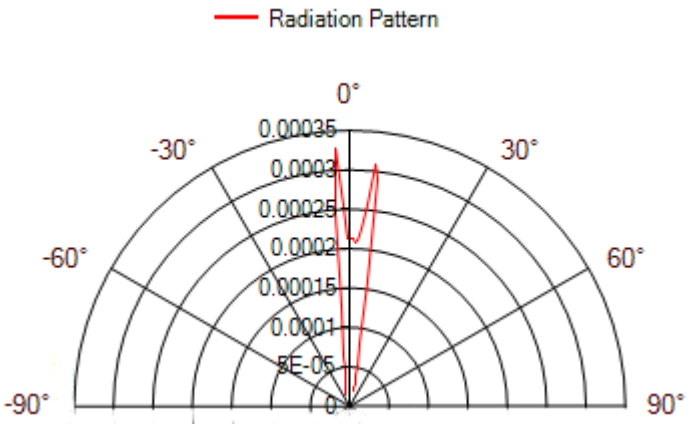

The information contained herein is subject to change without notice.

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